

IN THE CLAIMS

Claims 1-21 (Canceled).

22. (New) A method of operating a communication system, the method comprising:
sending via a communication link a message requesting routing of a call;
receiving via the communication link a message comprising call routing information;
selecting a call route based upon the call routing information; and
transmitting via the communication link a message requesting setup of the call using the selected call route.

23. (New) The method of claim 22 wherein the call is a voice call.

24. (New) The method of claim 22 wherein the selecting further comprises:
providing a user with call routing options using the call routing information; and
receiving from the user an indication of a selected call route.

25. (New) The method of claim 22 wherein the communication link is a wireless link.

26. (New) The method of claim 25 wherein the wireless link communicates using a frequency of approximately 2.4 gigahertz.

27. (New) The method of claim 25 wherein the wireless link communicates using a frequency hopping spread spectrum technique.

28. (New) The method of claim 22 wherein the communication link uses a packet protocol.

29. (New) The method of claim 28 wherein the packet protocol is an Internet protocol.

30. (New) The method of claim 22 wherein the message requesting routing of a call comprises at least a destination identifier.

31. (New) The method of claim 30 wherein the destination identifier comprises a telephone number.

32. (New) The method of claim 22 wherein the call routing information comprises a cost of use of a communication link.

33. (New) The method of claim 22 wherein the message requesting setup of the call comprises at least a destination identifier.

34. (New) The method of claim 33 wherein the destination identifier comprises a telephone number.

35. (New) The method of claim 22 further comprising:
receiving via the communication link a message indicating call status.

36. (New) The method of claim 35 wherein the call status represents one of a destination busy condition, a destination ringing condition, and a connection established condition.

37. (New) The method of claim 22 further comprising:
exchanging information via the communication link, if call status indicating establishment of a connection is received; and
refraining from exchanging information via the communication link, if call status indicating establishment of a connection is not received.

38. (New) A method for operating a communication system, the method comprising:
receiving via a first communication link a first message requesting routing of a call;
selecting a second communication link based upon at least the first message;
accepting via the first communication link a message requesting setup of a call; and
establishing call communication between the first communication link and the second
communication link based upon the message requesting setup of a call.

39. (New) The method of claim 38 wherein the call is a voice call.

40. (New) The method of claim 38 further comprising:
receiving via the second communication link a message comprising call routing
information; and
transmitting via the first communication link a message based upon the call routing
information.

41. (New) The method of claim 38 wherein the first communication link is a wireless
link.

42. (New) The method of claim 41 wherein the wireless link communicates using a
frequency of approximately 2.4 gigahertz.

43. (New) The method of claim 41 wherein the wireless link communicates using a
frequency hopping spread spectrum technique.

44. (New) The method of claim 38 wherein the first communication link uses a packet
protocol.

45. (New) The method of claim 44 wherein the packet protocol is an Internet
protocol.

46. (New) The method of claim 38 wherein the second communication link is a wired communication link.

47. (New) The method of claim 46 wherein the wired communication link comprises a link to a conventional telephone switching network.

48. (New) The method of claim 46 wherein the wired communication link is an analog communication link.

49. (New) The method of claim 38 wherein the first message requesting routing of a call comprises at least a destination identifier.

50. (New) The method of claim 49 wherein the destination identifier comprises a telephone number.

51. (New) The method of claim 38 wherein the call routing information comprises at least a cost of use of a communication link.

52. (New) The method of claim 38 wherein the first message requesting setup of the call comprises at least a destination identifier.

53. (New) The method of claim 52 wherein the destination identifier comprises a telephone number.

54. (New) The method of claim 38 further comprising:
receiving via the second communication link a message indicating call status.

55. (New) The method of claim 54 wherein the call status is one of busy, ringing, and connect.

56. (New) The method of claim 38 wherein the establishing comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

57. (New) The method of claim 56 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

58. (New) A method of operating a communication system, the method comprising:
under the control of a first device,
 sending via a wireless packet communication link a message requesting setup of a call;
 receiving via the wireless packet communication link a message indicating call status;
 exchanging digitized voice information via the wireless packet communication link, if call status indicating establishment of a connection is received; and
 refraining from exchanging digitized voice information via the wireless packet communication link, if call status indicating establishment of a connection is not received, and
under the control of a second device,
 receiving via the wireless packet communication link a message requesting setup of the call;
 sending via a wired communication link signals requesting setup of the call;
 receiving via the wired communication link signals representing call status;
 sending via the wireless packet communication link a message indicating call status;

establishing call communication between the wireless packet communication link and the wired communication link, if call status indicating establishment of a connection is received; and

refraining from establishing call communication between the wireless packet communication link and the wired communication link, if call status indicating establishment of a connection is not received.

59. (New) The method of claim 58 wherein the call communication comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

60. (New) The method of claim 59 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

61. (New) The method of claim 58 wherein the wireless communication link operates at a frequency of approximately 2.4 gigahertz.

62. (New) The method of claim 58 wherein the wired communication link comprises a link to a conventional telephone switching network.

63. (New) The method of claim 58 wherein the wireless packet communication link uses an Internet protocol (IP).

64. (New) The method of claim 63 wherein the Internet protocol is the transport control protocol (TCP)/Internet protocol (IP).